

Title (en)
ELECTROMECHANICAL REACTOR

Title (de)
ELEKTROMECHANISCHER REAKTOR

Title (fr)
REACTEUR ELECTROMECHANIQUE

Publication
EP 2432988 A1 20120328 (FR)

Application
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Priority
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Abstract (en)
[origin: WO2010133914A1] The present invention relates to an electromechanical reactor that consists of a novel system for producing electric energy, in which electricity is generated by an electromechanical reaction separate from the conventional conversions from petroleum, natural gas, coal, nuclear energy, hydraulic energy, geothermal energy, biomass, the sun or wind. The operational principle of the system is based on the conversion of accumulated mechanical energy into electric energy by the combination of two distinct energetic properties, electricity and kinetics. The basic principle of the system is to obtain an energy gain thanks to the control of a generated mechanical action and of the reaction thereof. The system can operate in parallel with a local power distribution network, or as a backup generator in the event of a failure of said distribution network. The system can be used as an independent power generator without using an external power supply, the energy necessary for the initial powering and for the cycle running pulses being provided by groups of batteries that are kept charged by the power generated by the system. When used as a mobile generator or for electric power lower than 1 MW, the mechanical reaction (depressurization) is obtained through pneumatic tanks and, for higher power levels, the mechanical reaction (depressurization) is obtained via a mechanical device referred to as a mechanical force converter that converts the movements of a weight into a hydraulic flow. The reactor can generate electricity without emitting effluents, the operational sound level thereof is very low, and the system can operate without oxygen.

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